

BISTABLE MICROMIRROR WITH CONTACTLESS STOPS

ABSTRACT OF THE DISCLOSURE

A microstructure for steering light is provided that mitigates stiction. A  
5 substrate is provided on which a structural linkage is connected to support a structural film.  
The structural film includes a reflective coating. A hold electrode is connected with the  
substrate at a position laterally beyond an orthogonal projection of the structural film on the  
substrate. It is configured to hold the structural film electrostatically in a tilted position with  
respect to the substrate upon application of a potential difference between the structural film  
10 and the hold electrode. Because of its positioning with respect to the structural film, it is  
ensured that the structural film is not in contact with the substrate when the structural film is  
being held by the hold electrode.